

ABSTRACT**MULTI-THREADED ACCEPT MECHANISM IN A
VERTICAL PERIMETER COMMUNICATION ENVIRONMENT**

A multi-threaded accept in a vertical perimeter communication

5 environment is disclosed. Embodiments of the present invention include a
method for processing a connection in a multi-processor server system
comprising receiving a connection indicator packet on a listener of the server
system wherein the connection indicator packet is associated with a connection
to be established. In response to the connection indicator, generating a
10 connection data structure defining a connection path for the connection and
assigning the path to a processor of the multi processor server. The path
transmits a first acknowledgement packet in response to the connection indicator
wherein the listener is free to process subsequent packets. The path receives a
second acknowledgement packet to establish the connection on the processor
15 and the path processes a plurality of data packets on the processor associated
with the connection, wherein the data packets are identified with the path based
on the data structure. By offloading a portion of the communication processing
from the listener, the listener can service a new client faster, thus reducing
latency and easing a critical bottleneck in a server system.

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